

# Create Your First AWS Lambda Function



us-west-2.console.aws.amazon.com/console/home?region=us-west-2#

Services

Search results for 's3'

S3 ☆ Scalable Storage in the Cloud

S3 Glacier ☆ Archive Storage in the Cloud

AWS Snow Family ☆ Large Scale Data Transport

Storage Gateway ☆ Hybrid Storage Integration

Imports from S3

DynamoDB feature

Feature spotlight

S3 feature

+ Add widgets

Create application

to default layout

Show more ▾

Region | Originating account

Applications

Region breakdown

Access denied

to default layout

+ Add widgets

Create application

Applications

Region breakdown

Access denied



Storage

# Amazon S3

## Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

### Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

### Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS](#)

### How it works



https://us-east-1.console.aws.amazon.com/s3/bucket/create?region=us-east-1&bucketType=general

aws | Search [Alt+S] | United States (N. Virginia) | vclabs/user4234713=K.Nithya @ 7605-5642-3325

Amazon S3 > Buckets > Create bucket

## Create bucket Info

Buckets are containers for data stored in S3.

### General configuration

**AWS Region**  
US East (N. Virginia) us-east-1

**Bucket type** Info

General purpose  
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

Directory  
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

**Bucket name** Info

Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)

**Copy settings from existing bucket - optional**  
Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix



Search

[Alt+S]



United States (N. Virginia) ▾

voclabs/user4234713=K.Nithya @ 7605-5642-3325 ▾



☰ Amazon S3 &gt; Buckets &gt; Create bucket

## Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

**ACLs disabled (recommended)**

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

**ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

## Object Ownership

Bucket owner enforced

## Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

**Block all public access**

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

**Block public access to buckets and objects granted through new access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

**Block public access to buckets and objects granted through any access control lists (ACLs)**

S3 will ignore all ACLs that grant public access to buckets and objects.

**Block public access to buckets and objects granted through new public bucket or access point policies**

S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.

**Block public and cross-account access to buckets and objects through any public bucket or access point policies**

S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

## Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

### Bucket Versioning

- Disable
- Enable

## Tags - optional (0)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

[Add new tag](#)

You can add up to 50 tags.

## Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

### Encryption type [Info](#)

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the Storage tab of the [Amazon S3 pricing page](#).

## Default encryption Info

Server-side encryption is automatically applied to new objects stored in this bucket.

### Encryption type Info

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the Storage tab of the [Amazon S3 pricing page](#).

### Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- Disable
- Enable

## ► Advanced settings

i After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#)

[Create bucket](#)

aws Services Search [Alt+S] X ⓘ ? Oregon TTTAdmin @ 3247-1292-7967 ⓘ

Successfully created bucket "tinyflix-102424"  
To upload files and folders, or to configure additional bucket settings, choose View details.

View details X ⓘ

Amazon S3 > Buckets

▶ Account snapshot - updated every 24 hours All AWS Regions

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

General purpose buckets Directory buckets

General purpose buckets (52) [Info](#) All AWS Regions

Buckets are containers for data stored in S3.

C Copy ARN Empty Delete Create bucket

Q Find buckets by name < 1 > ⌂

The screenshot shows the AWS S3 Buckets page. A prominent green success message at the top states 'Successfully created bucket "tinyflix-102424"' with a link to 'View details'. This message is circled in red. Below the message, the breadcrumb navigation shows 'Amazon S3 > Buckets'. A section titled 'Account snapshot - updated every 24 hours' includes a 'View Storage Lens dashboard' button. The main content area is divided into 'General purpose buckets' (52) and 'Directory buckets'. The 'General purpose buckets' section includes a 'Create bucket' button. At the bottom, there's a search bar for finding buckets by name and navigation controls (<, 1, >, ⌂).

AWS | Search [Alt+S] | United States (N. Virginia) | vclabs/user4234713=K.Nithya @ 7605-5642-3325

Amazon S3 > Buckets > test-bucket-s3-760556423325

## test-bucket-s3-760556423325 [Info](#)

[Objects](#) [Metadata](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

### Objects (0)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > [⚙️](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
--------------------------	------	------	---------------	------	---------------

No objects  
You don't have any objects in this bucket.

[Upload](#)

https://us-east-1.console.aws.amazon.com/s3/home?region=us-east-1

AWS

- Open link in new tab
- Open link in new window
- Open link in InPrivate window
- Open link in split screen window
- Save link as
- Copy link
- Add to Collections
- Share
- Open with Kami
- Inspect
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

[Alt+S]

United States (N. Virginia) | voclabs/user4234713=K.Nithya @ 7605-5642-3325

General purpose buckets All AWS Regions | Directory buckets

General purpose buckets (1) [Info](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	Creation date
<a href="#">test-bucket-s3-760556423325</a>	US East (N. Virginia) us-east-1	July 28, 2025, 23:52:00 (UTC+05:30)

Create bucket

▶ Account snapshot [Info](#)

Updated daily

[View dashboard](#)

Storage Lens provides visibility into storage usage and activity trends.

▶ External access summary - new

Updated daily

[Info](#)

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

https://us-east-1.console.aws.amazon.com/console/home?region=us-east-1

aws | lambda X

Services

- Services
- Features
- Resources New
- Documentation
- Knowledge articles
- Marketplace
- Blog posts
- Events
- Tutorials

Lambda Run code without thinking about servers

CodeBuild Build and Test Code

AWS Signer Ensuring trust and integrity of your code

Show more

Features

Lambda Insights

- CloudWatch feature

Local processing

- IoT Core feature

Object Lambda Access Points

- S3 feature

Show more

Were these results helpful?

Yes No

Reset to default layout + Add widgets

Create application

Find applications

Region Originati.

applications

creating an application.

Create application

myApplications

https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions

aws | Search [Alt+S] | United States (N. Virginia) | vclabs/user4234713=K.Nithya @ 7605-5642-3325

Lambda > Functions

**Introducing the AWS Serverless generative AI webinar series**  
Join AWS Serverless experts for a hands-on workshops on Agentic AI, Intelligent Document Processing, and building real-time APIs for chatbots. [See more details](#)

## Functions (5)

Last fetched 0 seconds ago [Actions](#) [Create function](#)

<input type="checkbox"/>	Function name	Description	Package type	Runtime	Last modified
<input type="checkbox"/>	<a href="#">RoleCreationFunction</a>	Create SLR if absent	Zip	Python 3.9	6 days ago
<input type="checkbox"/>	<a href="#">RedshiftOverwatch</a>	Deletes Redshift Cluster if the count is more than 2.	Zip	Python 3.9	6 days ago
<input type="checkbox"/>	<a href="#">MainMonitoringFunction</a>	-	Zip	Python 3.9	6 days ago
<input type="checkbox"/>	<a href="#">ModLabRole</a>	updates LabRole to allow it to assume itself	Zip	Python 3.9	6 days ago
<input type="checkbox"/>	<a href="#">RedshiftEventSubscription</a>	Create Redshift event subscription to SNS Topic.	Zip	Python 3.9	6 days ago

Filter by attributes or search by keyword

Additional resources: Code signing configurations, Event source mappings, Layers, Replicas

Related AWS resources: Step Functions state machines

Lambda > Functions > Create function

## Create function

Choose one of the following options to create your function.

- **Author from scratch**  
Start with a simple Hello World example.
  - **Use a blueprint**  
Build a Lambda application from sample code and configuration presets for common use cases.

- ### Container image

## Basic information

## ~~Function name~~

Enter a name that describes the purpose of your function.

## MyTestFunction

Function name must be 1 to 64 characters, must be unique to the Region, and can't include spaces. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (\_).

Runtime | Info

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.13

Architecture | Info

Choose the instruction set architecture you want for your function code.

- arm64
  - x86\_64

## Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

## Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

### ▼ Change default execution role

#### Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

i Role creation might take a few minutes. Do not delete the role or edit the trust or permissions policies in this role.

#### Role name

Enter a name for your new role.

MyTestFunctionRole

Use only letters, numbers, hyphens, or underscores with no spaces.

## Permissions Info

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

### ▼ Change default execution role

#### Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

i Role creation might take a few minutes. Do not delete the role or edit the trust or permissions policies in this role.

#### Role name



AWS Config Rules permissions

Config **S3**

Amazon **S3** object read-only permissions

**S3**



**Role name**

Enter a name for your new role.

Use only letters, numbers, hyphens, or underscores with no spaces.

**Policy templates - optional** | [Info](#)

Choose one or more policy templates.



Amazon S3 object read-only permissions 

S3

## ► Additional configurations

Use additional configurations to set up code signing, function URL, tags, and Amazon VPC access for your function.

[Cancel](#)[Create function](#)

aws Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Successfully created the function myTinyflixFunction. You can now change its code and configuration. To invoke your function with a test event, choose "Test".

EXPLORER

MYTINYFLIXFUNCTION

lambda\_function.py

lambda\_function.py

```
1 import json Amazon Q Tip 1/3: Start typing to get suggestions ([ESC] to exit)
2
3 def lambda_handler(event, context):
4     # TODO implement
5     return {
6         'statusCode': 200,
7         'body': json.dumps('Hello from Lambda!')
8     }
```

DEPLOY

Deploy

Test

TEST EVENTS

You haven't created any test events.

Create test event

ENVIRONMENT VARIABLES

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

```
import json
import urllib.parse
import boto3
print('Loading function')
s3 = boto3.client('s3')
def lambda_handler(event, context):
    #print("Received event: " + json.dumps(event, indent=2))
    # Get the object from the event and show its content type
    bucket = event['Records'][0]['s3']['bucket']['name']
    key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'],
encoding='utf-8')
    try:
        response = s3.get_object(Bucket=bucket, Key=key)
        print("CONTENT TYPE: " + response['ContentType'])
        return response['ContentType']
    except Exception as e:
        print(e)
        print('Error getting object {} from bucket {}. Make sure they exist and your
bucket is in the same region as this function.'.format(key, bucket))
        raise e
```

AWS Lambda function configuration interface.

**Code** | **Test** | **Monitor** | **Configuration** | **Aliases** | **Versions**

**Code source** [Info](#)

Upload from [▼](#)

EXPLORER

MYTINYFLIXFUNCTION

- lambda\_function.py

```
myTinyflixFunction
```

lambda\_function.py

```
1 import json
2 import urllib.parse
3 import boto3
4
5 print('Loading function')
6
7 s3 = boto3.client('s3')
8
9
10 def lambda_handler(event, context):
11     #print("Received event: " + json.dumps(event, indent=2))
12
13     # Get the object from the event and show its content type
14     bucket = event['Records'][0]['s3']['bucket']['name']
15     key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'], encoding='utf-8')
16     try:
17         response = s3.get_object(Bucket=bucket, Key=key)
18         print("CONTENT TYPE: " + response['ContentType'])
19         return response['ContentType']
20     except Exception as e:
21         print(e)
22         print('Error getting object {} from bucket {}. Make sure they exist and your bucket is in the same region as this Lambda function.'.format(key, bucket))
23         raise e
```

DEPLOY [UNDEPLOYED CHANGES]

You have undeployed changes.

[Deploy](#)

[Test](#)

TEST EVENTS

You haven't created any test events.

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

AWS Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Code Test Monitor Configuration Aliases Versions

Code source Info Upload from

EXPLORER MYTINYFLIXFUNCTION

myTinyFunction

lambda\_function.py

```
lambda_function.py
import boto3

print('Loading function')

s3 = boto3.client('s3')


def lambda_handler(event, context):
    #print("Received event: " + json.dumps(event, indent=2))

    # Get the object from the event and show its content type
    bucket = event['Records'][0]['s3']['bucket']['name']
    key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'], encoding='utf-8')
    try:
        response = s3.get_object(Bucket=bucket, Key=key)
        print("CONTENT TYPE: " + response['ContentType'])
        return response['ContentType']
    except Exception as e:
        print(e)
        print('Error getting object {} from bucket {}. Make sure they exist and your bucket is in the same region as this Lambda function.'.format(key, bucket))
        raise e
```

And you'll need to deploy again each time you change the code. :)

DEPLOY [UNDEPLOYED CHANGES]  
Δ You have undeployed changes.  
Deploy Test

TEST EVENTS

us-west-2.console.aws.amazon.com/lambda/home?region=us-west-2#/functions/myTinyflixFunction?newFunction=true&tab=code

Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-  
Lambda > Functions > myTinyflixFunction

## myTinyflixFunction

Throttle Copy ARN Actions ▾

Function overview Info

Diagram Template

+ Add trigger (0)

myTinyflixFunction

Layers (0)

+ Add destination

Description

Last modified 1 minute ago

Function ARN  arn:aws:lambda:us-west-2:324712927967:function:myTinyflixFunction

Function URL Info

Code Test Monitor Configuration Aliases Versions

us-west-2.console.aws.amazon.com/lambda/home?region=us-west-2#add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aus-west-2%3A324712927967%3Afunction%3AmyTinyflexFunction&targetType=aws%2Flambda&type... @... Incognito

Services Search [Alt+S]



Lambda > Add triggers



## Add trigger

### Trigger configuration Info

Select a source

s3



Batch/bulk data processing



S3

aws asynchronous storage

Cancel

Add

aws Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Lambda > Add triggers

## Add trigger

**Trigger configuration** [Info](#)

 S3 aws asynchronous storage ▾

**Bucket**  
Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.  
 [X](#) [C](#)  
Bucket must be in region us-west-2

**Event types**  
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.  
 [All object create events](#) [X](#)

**Prefix - optional**  
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters. Any [special characters](#) must be URL encoded.

Services  [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Event types

Select the events that you want to trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

**All object create events**

**Prefix - optional**

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters. Any [special characters](#) must be URL encoded.

*e.g. images/*

**Suffix - optional**

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters. Any [special characters](#) must be URL encoded.

*e.g. .jpg*

**Recursive invocation**

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

AWS Lambda Functions - myTinyflixFuction

The trigger tinyflixf-102424 was successfully added to function myTinyflixFuction. The function is now receiving events from the trigger.

**Function overview**

**Diagram**   **Template**

**myTinyflixFuction**

**S3**

**+ Add trigger**

**+ Add destination**

**Description**  
-

**Last modified**  
4 minutes ago

**Function ARN**  
arn:aws:lambda:us-west-2:324712927967:function:myTinyflixFunction

**Function URL** [Info](#)

Throttle   Copy ARN   Actions ▾

# S3 Bucket

aws Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Amazon S3 > Buckets > tinyflix-102424

## tinyflix-102424 [Info](#)

Objects Properties Permissions Metrics Management Access Points

**Objects (0) [Info](#)**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > ⚙

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

[Upload](#)

AWS Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Amazon S3 > Buckets > tinyflix-102424

## tinyflix-102424 Info

Objects Properties Permissions Metrics Management Access Points

**Objects (0) Info**

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > ⚙

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

Upload

**Event notifications (1)**

Send a notification when specific events occur in your bucket. [Learn more](#)

Name	Event types	Filters	Destination type	Destination
d8fcf086-711a-4eba-bc1c-daccda6858a	All object create events	-	Lambda function	myTinyflixFunction

**Amazon EventBridge**

For additional capabilities, use Amazon EventBridge to build event-driven applications at scale using S3 event notifications. [Learn more](#) or [see EventBridge pricing](#)

Send notifications to Amazon EventBridge for all events in this bucket

Off

us-west-2.console.aws.amazon.com/lambda/home?region=us-west-2#functions/myTinyflixFunction?tab=configure

Lambda > Functions > myTinyflixFunction

## myTinyflixFunction

The trigger tinyflix-102424 was successfully added to function myTinyflixFunction. The function is now receiving events from the trigger.

**Function overview** [Info](#)

[Diagram](#) [Template](#)

**myTinyflixFunction**

**S3**

**Add destination**

**Add trigger**

[Export to Application Composer](#) [Download](#)

Description

Last modified

5 minutes ago

Function ARN

arn:aws:lambda:us-west-2:324712927967:function:myTinyflixFunction

Function URL [Info](#)

myTinyflixFunction

Layers (0)

S3

+ Add destination

+ Add trigger

Last modified  
5 minutes ago

Function ARN  
arn:aws:lambda:us-west-2:3247129  
flixFunction

Function URL [Info](#)

Code Test Monitor Configuration Aliases Versions

General configuration

Triggers (1) [Info](#)

Find triggers

Trigger

S3: tinyflix-102424  
arn:aws:s3:::tinyflix-102424

Details

## Resource-based policy statements (1) Info

[View policy](#)[Edit](#)[Delete](#)[Add permissions](#)

Resource-based policies grant other AWS accounts and services permissions to access your Lambda resources.

 Find policy statements

&lt; 1 &gt;

Statement ID	Principal	PrincipalOrgID	Conditions	Action
<a href="#">lambda-7da7fee8-7ef... ...</a>	s3.amazonaws.com	-	StringEquals, ArnLike	lambda:InvokeFunction

## Auditing and compliance

## Policy statement details

X

### Statement ID

lambda-7da7fee8-7efd-4e93-b4df-b3cfa6275342

### Principal

s3.amazonaws.com

### Effect

Allow

### Action

lambda:InvokeFunction

### Conditions

```
1 * []
2 *   "StringEquals": {
3     "AWS:SourceAccount": "324712927967"
4   },
5 *   "ArnLike": {
6     "AWS:SourceArn": "arn:aws:s3:::tinyflix-102424"
7   }
8 []
```

Our S3 bucket is allowed to invoke  
this Lambda function

Edit

Close

# Upload the file in S3

The screenshot shows the AWS S3 console interface. At the top, there is a navigation bar with the AWS logo, a 'Services' dropdown, a search bar containing 'Search' with a keyboard shortcut '[Alt+S]', and account information for 'Oregon' and 'TTTAdmin @ 3247-1292-7967'. Below the navigation bar, the breadcrumb path indicates the user is in the 'Amazon S3 > Buckets > tinyflix-102424' section. The main content area displays the 'tinyflix-102424' bucket. A horizontal menu bar at the top of the bucket view includes tabs for 'Objects' (which is highlighted with an orange border and a cursor icon), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Below this, the 'Objects' tab is active, showing a toolbar with icons for refresh, copy S3 URI, copy URL, download, open, delete, actions, create folder, and upload. A descriptive message states: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)'. There is also a search bar labeled 'Find objects by prefix' and a pagination control showing page 1 of 1. The main table lists columns for Name, Type, Last modified, Size, and Storage class, with a note 'Loading objects' at the bottom.

Name	Type	Last modified	Size	Storage class
Loading objects				

AWS Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Amazon S3 > Buckets > tinyflix-102424

## tinyflix-102424 Info

Objects Properties Permissions Metrics Management Access Points

Objects (0) Objects are the files and folders stored in your bucket. Find obj... New... Preview

RI Copy URL Download Open Delete Actions Create folder Upload inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more

Name	Last modified	Size	Storage class
Lambda Function Python.txt			
TTT logo.png			

No objects  
You don't have any objects in this bucket.

Upload

2 items 1 item selected 3.25 KB

us-west-2.console.aws.amazon.com/s3/upload/tinyflix-102424?region=us-west-2&bucketType=general

Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

**Files and folders (1 Total, 3.3 KB)**

All files and folders in this table will be uploaded.

<input type="checkbox"/>	Name	Folder	<input type="checkbox"/>	Type
<input type="checkbox"/>	TTT logo.png	-	<input type="checkbox"/>	image/png

**Destination** Info

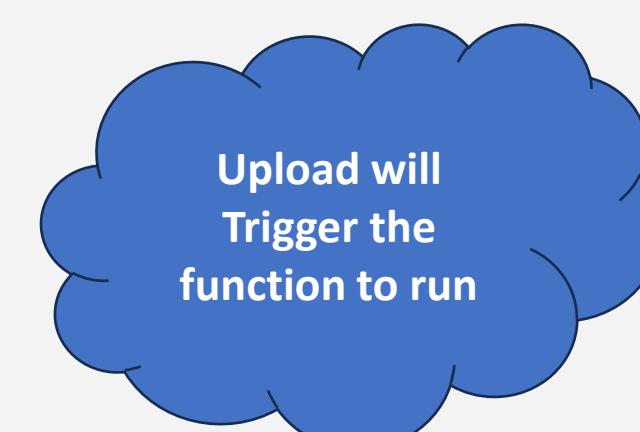
Destination  
<s3://tinyflix-102424>

▶ **Destination details**  
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**  
Grant public access and access to other AWS accounts.

▶ **Properties**  
Specify storage class, encryption settings, tags, and more.

Cancel **Upload**



us-west-2.console.aws.amazon.com/s3/upload/tinyflix-102424?region=us-west-2&bucketType=general

aws Services Search [Alt+S] Incognito

Upload succeeded

View details below.

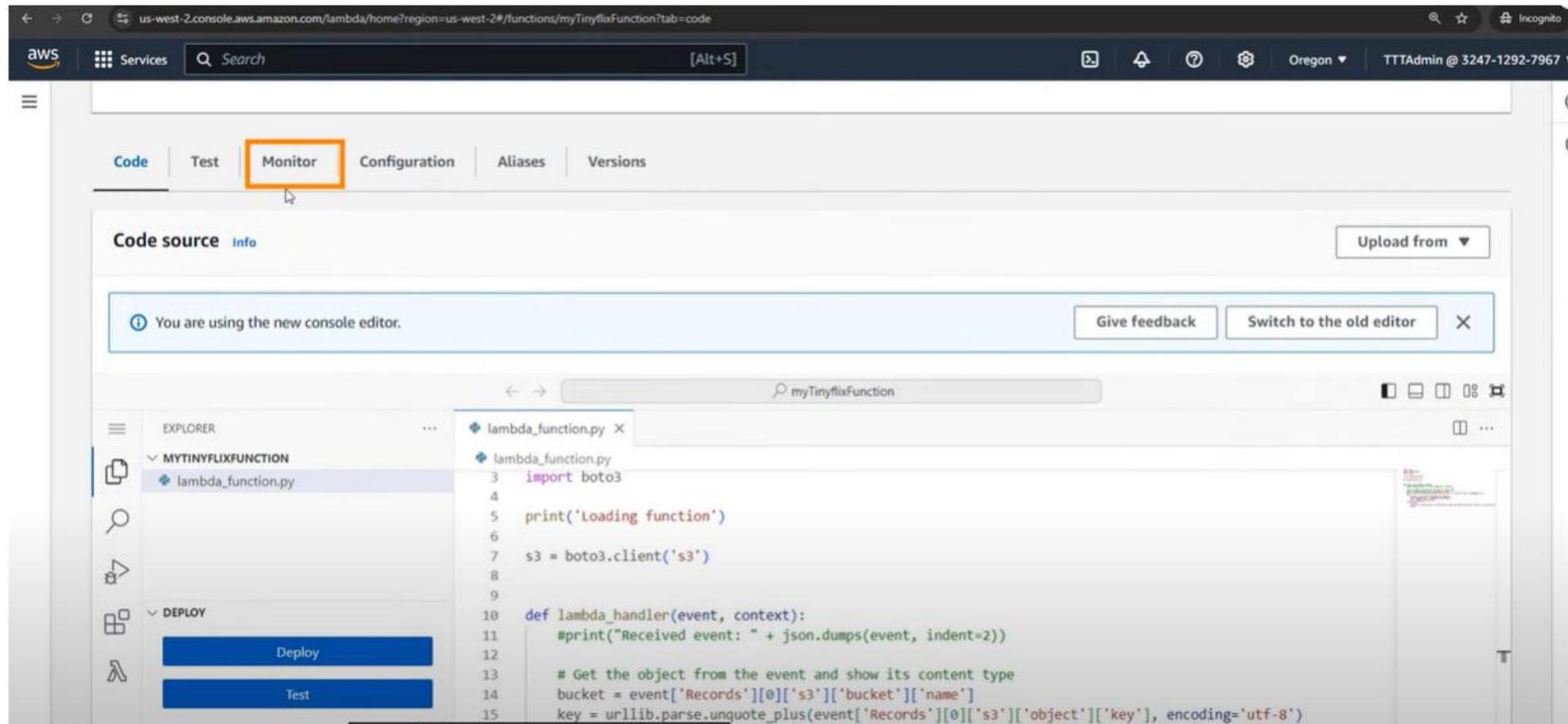
## Upload: status

*The information below will no longer be available after you navigate away from this page.*

### Summary

Destination	Succeeded	Failed
s3://tinyflix-102424	1 file, 3.3 KB (100.00%)	0 files, 0 B (0%)

# Back to Function



**Monitor** Info[View CloudWatch logs](#)[View X-Ray traces](#)[View Lambda Insights](#)[View CodeGuru profiles](#)

Filter metrics by

Function ▾

 Alarm recommendations ?

1h

3h

12h

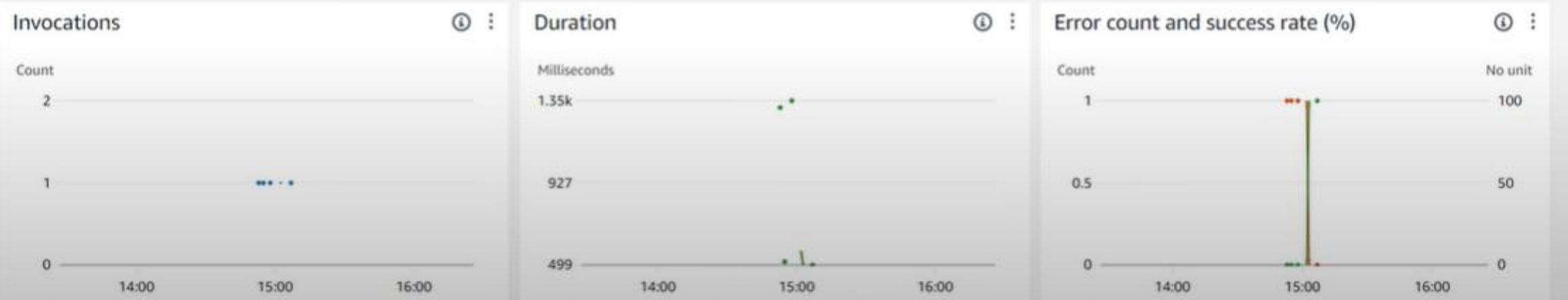
1d

3d

1w

Custom ▼UTC timezone ▼**CloudWatch metrics**

Lambda sends runtime metrics for your functions to Amazon CloudWatch. The metrics shown are an aggregate view of all function runtime activity. To view metrics for the unqualified or \$LATEST resource, choose **Filter by**. To view metrics for a specific function version or alias, choose **Aliases** or **Versions**, select the alias or version, and then choose **Monitor**.



The screenshot shows the AWS Lambda Monitor page. At the top, there are tabs for Code, Test, Monitor (which is selected), Configuration, Aliases, and Versions. Below the tabs, there are four buttons: View CloudWatch logs (highlighted with an orange box), View X-Ray traces, View Lambda Insights, and View CodeGuru profiles. A "Monitor" link and an "Info" link are also present. To the right, there is a "Filter metrics by" dropdown set to "Function". Below these are buttons for time intervals: 1h, 3h, 12h, 1d, 3d, 1w, Custom (5m) (which is selected), and UTC timezone. There are also refresh and download icons.

**CloudWatch metrics**

Lambda sends runtime metrics for your functions to Amazon CloudWatch. The metrics shown are an aggregate view of all function runtime activity. To view metrics for the unqualified or \$LATEST resource, choose **Filter by**. To view metrics for a specific function version or alias, choose **Aliases** or **Versions**, select the alias or version, and then choose **Monitor**.

Invocations	Duration	Error count and success rate (%)
Count 2	Milliseconds 627	Count No unit 100
1	627	0.5 99.5
0	627	0 99

16:24 16:25 16:26 16:27 16:28

is all run by cloudwatch and you can

us-west-2.console.aws.amazon.com/cloudwatch/home?region=us-west-2#logsV2:log-groups/log-group/%2Faws%2Flambda%2FmyTinyflixFunction

CloudWatch Services Search [Alt+S] Incognito

CloudWatch > Log groups > /aws/lambda/myTinyflixFunction

# /aws/lambda/myTinyflixFunction

Actions View in Logs Insights Start tailing Search log group

## Log group details

Log class	Info	Stored bytes	KMS key ID
Standard	-	-	-
ARN	arn:aws:logs:us-west-2:324712927967:log-group:/aws/lambda/myTinyflixFunction:*	Metric filters	Anomaly detection
	<input type="checkbox"/>	0	Configure
Creation time	2 hours ago	Subscription filters	Data protection
		0	-
Retention	Never expire	Contributor Insights rules	Sensitive data count
		-	-

Log streams Tags Anomaly detection Metric filters Subscription filters Contributor Insights Data protection

Favorites and recents Dashboards Alarms △ 2 ✓ 6 ⊖ 0 Logs Log groups Log Anomalies Live Tail Logs Insights Contributor Insights Metrics X-Ray traces Events Application Signals New Network monitoring Insights △ 0

## Log streams (3)



Delete

Create log stream

Search all log streams

Filter log streams or try prefix search

 Exact match  Show expired Info

&lt; 1 &gt;

 Log stream

▼ | Last event time

 [2024/10/24/\[\\$LATEST\]61a7e0d296074b48a8547fce505e1e69](#)

2024-10-24 16:27:12 (UTC)

 [2024/10/24/\[\\$LATEST\]09e63e8b3bd740eba9d7692fd1e52ddf](#)

2024-10-24 15:07:53 (UTC)

 [2024/10/24/\[\\$LATEST\]f2f73426853f4626befeff40cd5d020a](#)

2024-10-24 14:55:29 (UTC)

## Log streams (3)



Delete

Create log stream

Search all log streams

Filter log streams or try prefix search

 Exact match  Show expired Info

&lt; 1 &gt;

 Log stream

▼ | Last event time

 [2024/10/24/\[\\$LATEST\]61a7e0d296074b48a8547fce505e1e69](#)

2024-10-24 16:27:12 (UTC)

 [2024/10/24/\[\\$LATEST\]09e63e8b3bd740eba9d7692fd1e52ddf](#)

2024-10-24 15:07:53 (UTC)

 [2024/10/24/\[\\$LATEST\]f2f73426853f4626befeff40cd5d020a](#)

2024-10-24 14:55:29 (UTC)

## Log events



Actions ▾

Start tailing

Create metric filter

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events - press enter to search

Clear

1m

30m

1h

12h

Custom

UTC timezone

Display ▾



▶	Timestamp	Message
No older events at this moment. <a href="#">Retry</a>		
▶	2024-10-24T16:27:11.634Z	INIT_START Runtime Version: python:3.12.v36 Runtime Version ARN: arn:aws:lambda:us-west-2::runtime:188d9ca2e2714ff5637bd2bbe06c...
▼	2024-10-24T16:27:11.940Z	Loading function
Loading function		
▶	2024-10-24T16:27:12.154Z	START RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9 Version: \$LATEST
▶	2024-10-24T16:27:12.761Z	CONTENT TYPE: image/png
▶	2024-10-24T16:27:12.781Z	END RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9
▶	2024-10-24T16:27:12.781Z	REPORT RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9 Duration: 626.81 ms Billed Duration: 627 ms Memory Size: 128 MB Max Memo...
No newer events at this moment. Auto retry paused. <a href="#">Resume</a>		

AWS Lambda console interface showing the code editor for a function named "myTinyflixFunction".

The navigation bar includes: AWS logo, Services, Search, [Alt+S], and account information: Oregon, TTTAdmin @ 3247-1292-7967.

The tabs at the top are: Code (selected), Test, Monitor, Configuration, Aliases, and Versions.

The "Code source" section shows the function name "myTinyflixFunction" and provides an "Upload from" button.

A message box indicates: "You are using the new console editor." with buttons for "Give feedback", "Switch to the old editor", and a close button.

The code editor displays the "lambda\_function.py" file:

```
myTinyflixFunction
lambda_function.py

import boto3
print('Loading function')
s3 = boto3.client('s3')

def lambda_handler(event, context):
    # Get the object from the event and show its content type
    bucket = event['Records'][0]['s3']['bucket']['name']
    key = urllib.parse.unquote_plus(event['Records'][0]['s3']['object']['key'], encoding='utf-8')
    try:
        response = s3.get_object(Bucket=bucket, Key=key)
```

The left sidebar includes an Explorer panel showing "MYTINYFLIXFUNCTION" and "lambda\_function.py", and a Deploy panel with "Deploy" and "Test" buttons.



## Log events



Actions ▾

Start tailing

Create metric filter

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events - press enter to search

Clear

1m

30m

1h

12h

Custom

UTC timezone ▾

Display ▾



▶	Timestamp	Message
		No older events at this moment. <a href="#">Retry</a>
▶	2024-10-24T16:27:11.634Z	INIT_START Runtime Version: python:3.12.v36 Runtime Version ARN: arn:aws:lambda:us-west-2::runtime:188d9ca2e2714ff5637bd2bbe06c...
▶	2024-10-24T16:27:11.940Z	Loading function
▶	2024-10-24T16:27:12.154Z	START RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9 Version: \$LATEST
▼	2024-10-24T16:27:12.761Z	CONTENT TYPE: image/png
		CONTENT TYPE: image/png
▶	2024-10-24T16:27:12.781Z	END RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9
▶	2024-10-24T16:27:12.781Z	REPORT RequestId: 5a0c14f4-890f-4b6f-a982-9c761f9b7bc9 Duration: 626.81 ms Billed Duration: 627 ms Memory Size: 128 MB Max Memo...
		No newer events at this moment. Auto retry paused. <a href="#">Resume</a>

us-west-2.console.aws.amazon.com/lambda/home?region=us-west-2#functions/myTinyflixFuction?tab=code

aws Services Search [Alt+S] Incognito

Lambda > Functions > myTinyflixFunction

## myTinyflixFunction

The trigger tinyflix-102424 was successfully added to function myTinyflixFunction. The function is now receiving events from the trigger.

Throttle Copy ARN Actions ▾

Function overview Info Export to Application Composer Download ▾

Diagram Template

myTinyflixFunction

Layers (0)

S3 + Add destination + Add trigger

Description

Last modified 13 minutes ago

Function ARN arn:aws:lambda:us-west-2:324712927967:function:myTinyflixFunction

Function URL Info

Code Test Monitor Configuration Alarms Metrics

# Delete Lambda Function

The screenshot shows the AWS Lambda console interface. At the top, the URL is `us-west-2.console.aws.amazon.com/lambda/home?region=us-west-2#/functions`. The navigation bar includes 'Services' and 'Search' buttons. On the right, it shows 'Oregon' and 'TTTAdmin @ 3247-1292-7967'. The main area is titled 'Functions (1/10)' and contains a table with columns: 'Function name', 'Description', 'Package type', 'Runtime', and 'Last fetched'. A search bar at the top of the table says 'Filter by tags and attributes or search by keyword'. A context menu is open over the last row, which is highlighted with a blue border. The menu has 'Actions' selected, with other options like 'View details', 'Test', and 'Delete'. The table rows list various Lambda functions, such as 'SendSESEmailToContacts', 'amplify-login-verify-auth-challenge-2e7d0f1c', and 'myTinyflixFunction'.

Function name	Description	Package type	Runtime	Last fetched
<a href="#">SendSESEmailToContacts</a>	-	Zip	Python 3.12	8 months ago
<a href="#">amplify-login-verify-auth-challenge-2e7d0f1c</a>	-	Zip	Node.js 16.x	12 months ago
<a href="#">amplify-login-define-auth-challenge-2e7d0f1c</a>	-	Zip	Node.js 16.x	12 months ago
<a href="#">amplify-myquizapp2-dev-12-</a> <a href="#">UpdateRolesWithIDPFuncți-uvfhrlrm4zvaM</a>	-	Zip	Node.js 18.x	7 months ago
<a href="#">amplify-login-custom-message-2e7d0f1c</a>	-	Zip	Node.js 16.x	12 months ago
<a href="#">PowerOfMathFunction</a>	-	Zip	Python 3.9	2 years ago
<a href="#">RequestUnicorn</a>	-	Zip	Node.js 16.x	12 months ago
<a href="#">amplify-login-create-auth-challenge-2e7d0f1c</a>	-	Zip	Node.js 16.x	12 months ago
<a href="#">TwoPointOhFunction</a>	-	Zip	Python 3.9	2 years ago
<a href="#">myTinyflixFunction</a>	-	Zip	Python 3.12	18 minutes ago

## Delete 1 functions

X

 Deleting a function permanently removes the function code. The related logs, roles, test event schemas, and triggers are retained in your account.

④ myTinyflixFunction

To confirm deletion, type **delete** in the field.

delete



Cancel

Delete

# Delete s3 Bucket

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, a 'Services' dropdown, a search bar containing 'Search [Alt+S]', and account information for 'Oregon' and 'TTTAdmin @ 3247-1292-7967'. Below the navigation bar, the path 'Amazon S3 > Buckets > tinyflix-102424' is displayed. The main content area is titled 'tinyflix-102424' with an 'Info' link. A horizontal menu bar below the title includes tabs for 'Objects' (which is selected and highlighted in blue), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab displays a table with the following data:

Objects (1) <a href="#">Info</a>						
		<a href="#">C</a>	<a href="#">Copy S3 URI</a>	<a href="#">Copy URL</a>	<a href="#">Download</a>	<a href="#">Open</a>
		<a href="#">Delete</a>	<a href="#">Actions ▾</a>	<a href="#">Create folder</a>	<a href="#">Upload</a>	
<input type="checkbox"/>	Name	▲	Type	▼	Last modified	▼
<input type="checkbox"/>	<a href="#">TTT logo.png</a>		png		October 24, 2024, 09:27:11 (UTC-07:00)	▼
					3.3 KB	▼ Storage class
						Standard

Below the table, there's a note: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)'.

us-west-2.console.aws.amazon.com/s3/buckets?region=us-west-2&bucketType=general&region=us-west-2

Services Search [Alt+S] Incognito

Amazon S3 > Buckets > tinyflix-102424

## tinyflix-102424 Info

Objects Properties Permissions Metrics Management Access Points

**Objects (1) Info**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix < 1 > ⌂

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">TTT logo.png</a>	png	October 24, 2024, 09:27:11 (UTC-07:00)	3.3 KB	Standard

us-west-2.console.aws.amazon.com/s3/buckets?region=us-west-2&bucketType=general&region=us-west-2

Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-7967

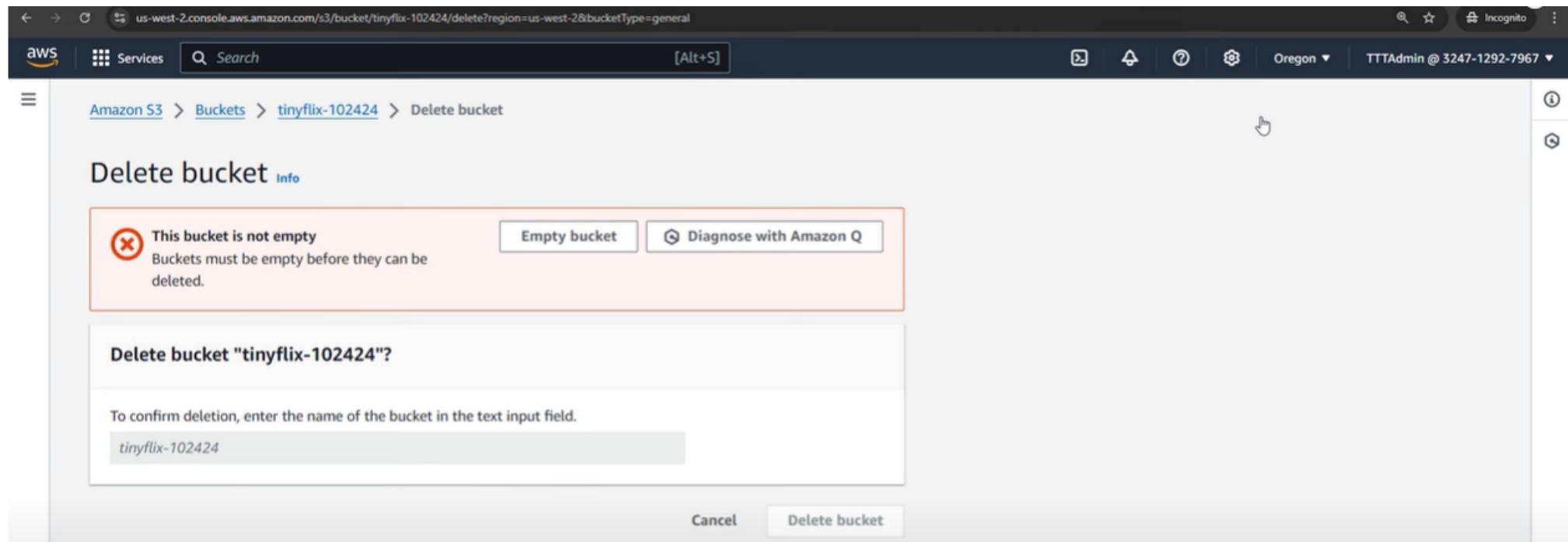
General purpose buckets (52) [Info](#) All AWS Regions

Buckets are containers for data stored in S3.

Find buckets by name

C Copy ARN Empty Delete Create bucket

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">tadb51k2d1h</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	December 9, 2022, 08:02:24 (UTC-08:00)
<a href="#">sagemaker-studio-324712927967-uze9tyeopm</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	July 21, 2022, 17:26:16 (UTC-07:00)
<a href="#">sagemaker-studio-324712927967-vnqtcvwarbm</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	December 4, 2021, 10:01:50 (UTC-08:00)
<a href="#">sagemaker-studio-h1hgev021qq</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	November 30, 2021, 14:41:34 (UTC-08:00)
<a href="#">sagemaker-tutorial-acg-ai</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	December 9, 2022, 14:11:43 (UTC-08:00)
<a href="#">sagemaker-us-east-2-324712927967</a>	US East (Ohio) us-east-2	<a href="#">View analyzer for us-east-2</a>	November 30, 2021, 14:49:31 (UTC-08:00)
<a href="#">sagemaker-us-west-2-324712927967</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	July 21, 2022, 17:50:36 (UTC-07:00)
<a href="#">script-mode-wine-quality-acg-ai-1218</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	December 18, 2022, 15:16:00 (UTC-08:00)
<a href="#">tiny-profile-pics</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	August 17, 2023, 11:16:57 (UTC-07:00)
<a href="#">tinyflix-102424</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	October 24, 2024, 09:11:27 (UTC-07:00)
<a href="#">ttt-email-marketing</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	February 24, 2024, 16:40:40 (UTC-08:00)
<a href="#">ttt-ideavoting1</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	March 2, 2024, 15:38:24 (UTC-08:00)
<a href="#">ttt-wildrydes</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	February 7, 2024, 15:05:30 (UTC-08:00)
<a href="#">xgboost-churn-acg-ai</a>	US West (Oregon) us-west-2	<a href="#">View analyzer for us-west-2</a>	December 18, 2022, 13:18:13 (UTC-08:00)



The screenshot shows the AWS S3 console interface. The top navigation bar includes the AWS logo, Services dropdown, a search bar with placeholder text 'Search' and keyboard shortcut '[Alt+S]', and a three-dot menu icon.

The breadcrumb navigation path is: Amazon S3 > Buckets > tinyflix-102424 > Empty bucket.

## Empty bucket Info

**⚠** • Emptying the bucket deletes all objects in the bucket and cannot be undone.  
• Objects added to the bucket while the empty bucket action is in progress might be deleted.  
• To prevent new objects from being added to this bucket while the empty bucket action is in progress, you might need to update your bucket policy to stop objects from being added to the bucket.

[Learn more](#)

**ⓘ** If your bucket contains a large number of objects, creating a lifecycle rule to delete all objects in the bucket might be a more efficient way of emptying your bucket. [Learn more](#)

[Go to lifecycle rule configuration](#)

### Permanently delete all objects in bucket "tinyflix-102424"?

To confirm deletion, type *permanently delete* in the text input field.

[Cancel](#) [Empty](#)

us-west-2.console.aws.amazon.com/s3/bucket/tinyflix-102424/empty?region=us-west-2&bucketType=general

Services Search [Alt+S] Oregon TTTAdmin @ 3247-1292-796

SuccessFully emptied bucket "tinyflix-102424"  
View details below. If you want to delete this bucket, use the [delete bucket configuration](#).

## Empty bucket: status

The details below are no longer available after you navigate away from this page.

### Summary

Source <a href="s3://tinyflix-102424">s3://tinyflix-102424</a>	Successfully deleted 1 object, 3.3 KB	Failed to delete 0 objects
---	--	-------------------------------

Cancel Exit



Services

Search [Alt+S]



Amazon S3 &gt; Buckets &gt; tinyflix-102424 &gt; Delete bucket

## Delete bucket Info



- Deleting a bucket cannot be undone.
- Bucket names are unique. If you delete a bucket, another AWS user can use the name.
- If this bucket is used with a Multi-Region Access Point in an external account, initiate failover before deleting the bucket.
- If this bucket is used with an access point in an external account, the requests made through those access points will fail after you delete this bucket.

[Learn more](#) 

### Delete bucket "tinyflix-102424"?

To confirm deletion, enter the name of the bucket in the text input field.

[Cancel](#)[Delete bucket](#)